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MEMORANDUM

To: Transportation Committee

Date: December 1, 2011

From: CMAP Staff

Re: 09-11-0034 GO TO 2040/TIP Conformity Analysis & TIP Amendment

IDOT has requested a special GO TO 2040/TIP Conformity Analysis & TIP Amendment for 09-11-0034, IL 47 from Caton Farm Rd to I-80 in Kendall and Grundy Counties. The amendment was released for public comment from November 3, 2011 to December 2, 2011. At this time, no comments have been received. If any comments are received before the end of the comment period, the committee will be informed.

The project consists of adding lanes, adding signals and improving intersections along the highway.

The 2020, 2030 and 2040 highway networks were coded to include the project. The regional travel demand model was run using the updated networks. The resultant vehicle miles traveled (VMT) by speed and facility type for eight vehicle classes was expanded to the twenty-eight vehicle types needed for use with USEPA's MOBILE model. The on-road emission estimates are the sum of those emissions for each precursor or direct pollutant in each scenario year. Reductions from the National Energy Policy Act Credit, Clean Fuel Fleet Program or activities that can't be included in the travel demand model have not been claimed.

For ozone precursors, the resulting emissions estimates fell below the applicable attainment demonstration SIP budgets.

Since there are no SIP budgets for annual direct PM_{2.5} (fine particulates) and NOx (nitrogen oxide) emissions, these estimates were combined with estimates from northwest Indiana, which is also part of the nonattainment area. The combined direct PM_{2.5} and NOx emissions remain below emissions estimates for 2002, the baseline year.

Northeastern Illinois Transportation Improvement Program TIP Amendment 09-11-0034 IL 47 from Caton Farm Rd to I-80 Conformity Analysis Summary Results

Direct PM_{2.5} and NO_x Emissions in Tons per Year for PM_{2.5} Conformity

[Fine Particulate Matter			Nitrogen Oxide		
	Northeastern	Northwest	Nonattainment	Northeastern	Northwest	Nonattainment
Year	Illinois	Indiana	area Total	Illinois	Indiana	area Total
2002	3,070.78	562.64	3,633.42	167,630.81	30,397.97	198,028.78
2016	1,073.93	112.28	1,186.21	40,800.91	3,931.12	44,732.03
2020	969.63	104.73	1,074.36	27,729.34	2,733.80	30,463.14
2030	957.11	109.53	1,066.64	19,098.53	1,964.01	21,062.54
2040	1,004.53	122.52	1,127.05	19,324.23	2,111.42	21,435.65

conformity is demonstrated by comparison of analysis year emissions to the baseline year (2002)

VOC and NOx Emissions in Tons per Summer Day for Ozone Conformity

. [Volatile Organi	c Compounds	Nitrogen Oxides		
	Northeastern		Northeastern		
Year	Illinois	SIP Budget	Illinois	SIP Budget	
2016	61.31	133.78	110.13	284.65	
2020	52.50	73.68	74.08	88.17	
2030	51.97	73.68	49.47	88.17	
2040	55.67	73.68	49.67	88.17	

conformity is demonstrated by comparison of analysis year emissions to the SIP budgets

Notes

Off-model benefits are not included in the total emissions estimates
NIRPC emissions from (pending) December 8, 2011 conformity analysis, assuming construction of Cline Avenue Bridge

Conformity Analysis Summary TIP Amendment 09-11-0034 IL 47 from Caton Farm Rd to I-80.xls October 28, 2011

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